		Future Flight [Design		
		2005 Scien			
		Curriculum Sta	indards		
South Carolina Sc	ience				
Grade 5					
Activity/Lesson	State	Standards			
			Evaluate results of an investigation to		
			formulate a valid conclusion based on		
Air Transportation			evidence and communicate the findings of		
Problem	SC	SCI.5.5-1.6	the evaluation in oral or written form.		
			Use a simple technological design process		
			to develop a solution or a product,		
Air Transportation			communicating the design by using		
Problem	SC	SCI.5.5-1.7	descriptions, models, and drawings.		
			Use a simple technological design process		
			to develop a solution or a product,		
Aircraft Design			communicating the design by using		
Problem	SC	SCI.5.5-1.7	descriptions, models, and drawings.		
Aircraft Design			Illustrate the affects of force (including		
Problem	SC	SCI.5.5-5.1	magnetism, gravity, and friction) on motion.		
Aircraft Design		201555	Summarize the motion of an object in terms		
Problem	SC	SCI.5.5-5.2	of position, direction, and speed.		
Aircraft Design	00	0015550	Explain how unbalanced forces affect the		
Problem	SC	SCI.5.5-5.3	rate and direction of motion in objects.		
Aircraft Design	00	001555	Use a graph to illustrate the motion of an		
Problem	SC	SCI.5.5-5.5	object.		
Aircraft Design Problem	SC	SCI.5.5-5.6	Explain how a change of force or a change in mass affects the motion of an object.		
Problem	30	SCI.3.3-3.0	in mass affects the motion of an object.		
		Future Flight [) Design		
		2005 Scien			
		Curriculum Sta			
South Carolina Science					
Grade 6					
Activity/Lesson	State	Standards			
			Differentiate between observation and		
Air Transportation			inference during the analysis and		
Problem	sc	SCI.6.6-1.2	interpretation of data.		
			Use appropriate instruments and tools to		
			collect weather data (including wind speed		
Air Transportation			and direction, air temperature, humidity, and		
Problem	SC	SCI.6.6-4.5	air pressure).		
			Use a technological design process to plan		
			and produce a solution to a problem or a		
			product (including identifying a problem,		
			designing a solution or a product,		
Aircraft Design			implementing the design, and evaluating the		
Problem	SC	SCI.6.6-1.4	solution or the product).		
Aircraft Design			Recognize that energy is the ability to do		
Problem	SC	SCI.6.6-5.6	work (force exerted over a distance).		

Aircraft Design			Explain how the design of simple machines (including levers, pulleys, and inclined planes) helps reduce the amount of force		
Problem	SC	SCI.6.6-5.7	required to do work.		
		Future Flight I	Design		
2005 Science					
Curriculum Standards					
South Carolina Science					
Grade 8					
Activity/Lesson	State	Standards			
			Use measurement and time-distance graphs		
Aircraft Design			to represent the motion of an object in terms		
Problem	SC	SCI.8.8-5.1	of its position, direction, or speed.		
			Analyze the effects of forces (including		
Aircraft Design			gravity and friction) on the speed and		
Problem	SC	SCI.8.8-5.3	direction of an object.		
Aircraft Design			Predict how varying the amount of force or		
Problem	SC	SCI.8.8-5.4	mass will affect the motion of an object.		
			Analyze the resulting effect of balanced and		
Aircraft Design			unbalanced forces on an object's motion in		
Problem	SC	SCI.8.8-5.5	terms of magnitude and direction.		
Aircraft Design			Summarize and illustrate the concept of		
Problem	SC	SCI.8.8-5.6	inertia.		